



DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
WASHINGTON, D.C. 20590

17564

DEPARTMENT OF TRANSPORTATION

Research and Special Programs
Administration

49 CFR Part 173

[Docket No. HM-106G; Amdt. No. 173-147]

**Ammonium Hydroxide; Shippers
General Requirements for Shipments
and Packagings**

AGENCY: Materials Transportation
Bureau (MTB), Research and Special
Programs Administration, DOT.

ACTION: Final rule.

SUMMARY: This final rule amends the Hazardous Materials Regulations to authorize the use of non-specification portable tanks and cargo tanks for the shipment of ammonium hydroxide containing no more than 30 percent ammonia by weight under specified conditions.

On January 8, 1981, the MTB published a notice of proposed rulemaking under Docket HM-106-G, Notice No. 80-9 (46 FR 2126), which proposed numerous amendments, all of which would relieve some of the current burden of restrictive regulation. Because of the urgent need for aqua ammonia by farmers for their crops, MTB is issuing this amendment in an expedited manner to permit the transportation of this important agricultural product in portable tanks and cargo tanks not presently authorized by the regulations. MTB believes that aqua ammonia, containing no more than 30 percent ammonia, does not pose a risk sufficient to warrant required use of specification portable tanks and cargo tanks when transported in motor vehicles that are primarily operated in local distribution services.

EFFECTIVE DATE: This amendment is effective June 1, 1981; however, compliance with the regulations as amended herein is authorized immediately.

ADDRESS: Copies of supporting documents, Regulatory Evaluation and Environmental Assessment are available for inspection and reproduction at the following address: Dockets Branch, Department of Transportation, Research and Special Programs Administration, Materials Transportation Bureau, Room 8120, 400 7th Street, S.W., Washington, D.C. 20590, (202) 426-3148.

FOR FURTHER INFORMATION CONTACT:

Darrell L. Raines, Chief, Exemptions and Regulations Termination Branch, Office of Hazardous Materials Regulation,

Materials Transportation Bureau,
Washington, D.C. 20590, (202) 472-2726.

Delay in publication of this amendment would be costly to fertilizer companies and farmers, and would result in lower crop yields and higher costs to consumers. Therefore, MTB believes this rulemaking responds to an emergency situation and is exempt from the President's Memorandum on Postponement of Pending Regulations dated January 29, 1981, and may be issued under Executive Order 12291.

In consideration of the foregoing, 49 CFR Part 173 is revised by adding paragraph (a)(36) to § 173.245 to read:

§ 173.245 Corrosive liquids not specifically provided for.

(a) * * *

(36) Ammonium hydroxide containing no more than 30 percent ammonia by weight may be transported by motor vehicle in non-specification cargo and portable tanks that meet the requirements of § 173.24.

* * * * *
(49 U.S.C. 1803, 1804, 1808; 49 CFR 1.53, Appendix A to Part 1)

Note.—The Materials Transportation Bureau has determined that this document will not result in a "major rule" under the terms Executive Order 12291 and is not a significant regulation under DOT's regulatory policy and procedures (44 FR 11034), nor require an environmental impact statement under the National Environmental Policy Act (49 U.S.C. 4321 et seq.) A regulatory evaluation and an environmental assessment are available for review in the docket.

Issued at Washington, D.C., on March 12, 1981.

L. D. Santman,

Director, Materials Transportation Bureau.

[FR Doc. 81-8453 Filed 3-18-81; 8:45 am]

BILLING CODE 4910-60-M

49 CFR Parts 172, 173, 175, 178 and 179

[Docket HM-166G; Amdt. Nos. 172-69, 173-19, 175-20, 178-67, 179-28]

Shipment of Hazardous Materials; Miscellaneous Amendments

AGENCY: Materials Transportation Bureau (MTB), Research and Special Programs Administration, DOT.

ACTION: Final rule.

SUMMARY: This is not a major rule. This action is being taken to incorporate into the Department's Hazardous Materials Regulations a number of changes based on rulemaking petitions from industry and on petitions from within the Department. This action is necessary to update the regulations and to reduce MTB's backlog of rulemaking petitions.

All of the amendments in this rulemaking are supported by the general public and are designed to reduce government regulation and paper work, clarify existing regulations, and to authorize the use of additional packaging which heretofore has not been authorized for the shipment of certain hazardous materials.

EFFECTIVE DATE: This amendment is effective July 1, 1982. However, compliance with the regulations as amended herein, is authorized immediately.

FOR FURTHER INFORMATION CONTACT: Darrell L. Raines, Chief, Exemptions and Regulations Termination Branch, Office of Hazardous Materials Regulation, Materials Transportation Bureau, Washington, D.C. 20590 (202-472-2726).

SUPPLEMENTARY INFORMATION: On January 8, 1981, the Materials Transportation Bureau published a Notice of Proposed Rulemaking, Docket No. HM-166G; Notice No. 80-9 [46 FR 2126], which proposed a number of miscellaneous amendments to the Hazardous Materials Regulations. Notice No. 80-9 included a brief statement regarding each proposal and invited public comments prior to the closing date of February 23, 1981. Based on comments received on this notice, these proposals are being incorporated as final amendments to the Hazardous Materials Regulations.

One of the proposed amendments included in Notice 80-9 was in reference to ammonium hydroxide. Because of the urgent need for ammonium hydroxide by farmers for this important agricultural product, an expedited amendment was made to § 173.245(a)(36) and published in the Federal Register on March 19, 1981 (46 FR 17564). This rulemaking

includes the remaining amendments as proposed in Notice 80-9.

Four commenters concurred in the removal of Rosin (*colophony*) or Resin from 49 CFR. The National Cargo Bureau, Inc., recommended that this product not be deleted. Based on the limited hazard of Rosin or Resin during transportation, the fact that no new information was furnished to support its retention, and the strong support received from other commenters, the MTB hereby removes Rosin or Resin from § 171.101 and § 173.1000.

Three comments were received regarding the proposed amendment of paragraph (8), Appendix A, Part 173, regarding the method of testing corrosion to skin. One comment received was just to express their approval of the proposed amendment. One commenter stated that there has been some confusion in his company about the interpretation of this paragraph. It appears that this commenter is confused by the words in paragraph (8) which reads "any of the readings". His main concern appears to be, which reading must show ulceration or necrosis for the corrosive hazard to be required. The MTB believes that the present words are clear and suggests that if this commenter has further questions regarding these tests, he should contact MTB with specific questions. The last commenter on this subject stated that his concurrence was contingent upon their understanding that (a) continued testing is necessary only until at least two rabbits show positive results, and thereafter no additional testing is necessary; and (b) further testing of additional rabbits would be continued until at least five rabbits are tested before the material is determined to be noncorrosive. Although paragraph (1) of Appendix A in Part 173 states that a minimum of six rabbits are to be used in this test, the MTB agrees that it is not necessary to put all six of the rabbits through the test when it is obvious from the results of the first two rabbits tested that the product is corrosive. When the product being tested is a "borderline" situation, then it is necessary to test six or more rabbits to determine whether the material is or is not corrosive to skin.

One commenter recommended that MTB eliminate the requirement in § 173.206(f) for absorbing or neutralizing the gases that may vent from a lithium battery cell. The MTB does not agree with this recommendation because any release of a hazardous material, especially during transportation by air, should be completely absorbed or neutralized. The proposed addition of

paragraph (g) of § 173.206 has been withdrawn from this rulemaking. One commenter stated that the test proposed is inadequate to reliably demonstrate all possible hazardous reactions which may occur. Additional tests were recommended which were not included in the notice of proposed rulemaking. Another commenter recommended that the MTB limit the size of the cell to 12 grams of lithium. In view of the comments received, further consideration will be given to this subject in a future notice of proposed rulemaking.

Several changes in this rulemaking are for the addition of Specification 19B wooden boxes. The Specification 19B wooden box has been added to some paragraphs that were not specifically listed in the Notice. After the notice was published, and upon further study, there was no valid reason why the 19B box should not be added to the other paragraphs where the 15A box is authorized. Also, the 19A box has been added to some paragraphs for the same reason. Editorial changes have been made to most of the affected paragraphs in order to eliminate unnecessary words and for clarity.

The MTB has determined that this regulation is consistent with Section 2 of Executive Order 12291, and is a non-major rule under the terms of that Order since the rule will not result in any significant costs or other adverse effects. Pursuant to the Regulatory Flexibility Act, this rule will not result in a significant economic impact on a substantial number of small entities because its effect will be to reduce costs and simplify procedures.

In consideration of the foregoing, 49 CFR Parts 172, 173, 175, 178, and 179 are amended as follows:

PART 172—HAZARDOUS MATERIALS TABLES AND HAZARDOUS MATERIALS COMMUNICATIONS REGULATIONS

1. In § 172.101 the Hazardous Materials Table is amended by deleting, revising, or adding the entries listed below:

§ 172.101 Hazardous materials table.

(1) ✓ E/ A/ W/	(2) Hazardous materials descriptions and proper shipping names	(3) Hazard class	(3A) Identifi- cation number	(4) Label(s) required (if not excepted)	(5) Packaging		(6) Maximum net quantity in one package		(7) Water shipments		
					(a) Exceptions	(b) Specific require- ments	(a) Passenger carry- ing aircraft or railcar	(b) Cargo only air- craft	(a) Cargo vessel	(b) Pas- senger vessel	(c) Other requirements
W	• • • (DELETE) • • •										
	Resin (colophony) or Resin	ORM-C		None	173.505	173.1000			1,2	1,2	
	• • • (ADD) • • •										
	Potassium superoxide	Oxidizer	UN2460	Oxidizer	None	173.107	Forbidden	100 pounds	1,2	1	Keep dry. Store away from powdered metals, permanganates and combustible pack- agings and cargo
	Sodium superoxide	Oxidizer	UN2547	Oxidizer	None	173.107	Forbidden	100 pounds	1,2	5	Keep dry. Store away from powdered metals, permanganates and combustible pack- agings and cargo
E	• • • (REVERSE) • • •										
	Allyl alcohol (RQ-100/ 43.4)	Flammable liquid	UN1990	Flammable liquid and Poison	None	173.119	1 quart	10 gallons	1,2	1	
	n-Butyl isocyanate	Flammable liquid	UN2405	Flammable liquid and Poison	None	173.119	1 quart	10 gallons	1,2	1	
	Crotonaldehyde (RQ-100/ 43.4)	Flammable liquid	UN1143	Flammable liquid and Poison	None	173.119	1 quart	1 gallon	1,2	1	
E	Flammable liquid, corrosive, n.o.s.	Flammable liquid	UN2924	Flammable liquid and Corrosive	None	173.119	1 quart	1 quart	1,2	1	
	Flammable liquid, poisonous, n.o.s.	Flammable liquid	UN1992	Flammable liquid and Poison	None	173.119	1 quart	10 gallons	1,2	1	
	Potassium peroxide • • •	Oxidizer	UN1491	Oxidizer	None	173.107	Forbidden	100 pounds	1,2	1,2	Keep dry.

**PART 173—SHIPPER'S—GENERAL
REQUIREMENTS FOR SHIPMENTS
AND PACKAGINGS**

2. In § 173.31, paragraph (a)(5) is revised; paragraph (b)(3) is amended by adding the following two sentences at the end to read as follows:

§ 173.31 Qualification, maintenance, and use of tank cars.

(a) * * *

(5) After December 31, 1976, each Specification 112 and 114 tank car must be equipped with shelf couplers in accordance with § 179.105-6 of this subchapter.

(b) * * *

(3) * * * All closures of openings in tank cars must be inspected to the extent practical for corrosion or damage to the gasket seating surface and for serviceability of packing, gaskets, and hold-down bolts. All defective packing, gaskets, bolting or threaded elements must be replaced.

3. In § 173.60, paragraphs (a)(4), (a)(5), (b)(1), (c)(1), (d)(1) and (d)(3) are amended to add Specification 19B (§ 178.191) in the introductory text of each paragraph to read as follows:

§ 173.60 Black powder and low explosives.

(a) * * *

(4) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(5) Specification 14, 15A, 16A or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(b) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(c) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(d) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(2) * * *

(3) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter).

4. In § 173.63, paragraphs (a)(2), (c)(1), (c)(2), and (d)(2), are amended to add Specification 19B (§ 178.191) in the introductory text of each paragraph; paragraphs (b) and (e)(1) are revised to read as follows:

§ 173.63 High explosive with liquid explosive ingredient.

(a) * * *

(2) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(3) * * *

(b) High explosives (dynamite) containing 10 percent or less of a liquid explosive ingredient in cartridges or bags as prescribed in § 173.61 (d) and (e) may be packed in wooden boxes. Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter), gross weight not to exceed 140 pounds, or fiberboard boxes. Specification 12H, 23F, or 23H (§§ 178.209, 178.214, 178.219 of this subchapter), gross weight not to exceed 65 pounds.

(c) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(2) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(d) * * *

(2) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter).

(e) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter). Wooden boxes.

(5) § 173.64, paragraph (a)(1) is revised to read as follows:

§ 173.64 High explosives with no liquid explosive ingredient and propellant explosives, Class A.

(a) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, or 178.191 of this subchapter). Wooden boxes.

6. In § 173.65, paragraphs (a)(1), (b)(1), (c)(1), (c)(2), and (h)(1) are revised; paragraphs (g), (i)(1), and (i)(2) are amended to add Specification 19B (§ 178.191) in the introductory text of each paragraph to read as follows:

§ 173.65 High explosives with no liquid explosive ingredient nor any chlorate.

(a) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter). Wooden boxes.

(b) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter). Wooden boxes with

inside strong paper or cloth bags not over 50 pounds capacity each, packed with filling holes up.

(c) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter). Wooden boxes with inside strong paper or cloth bags not over 100 pounds capacity each, packed with filling holes up.

(2) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter). Wooden boxes with strong airtight liners. Specification 21, (§ 178.30 of this subchapter).

(g) Nitrocellulose must be packed in wooden boxes complying with Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter), with inside packages which must be:

(h) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter). Wooden boxes. Gross weight not to exceed 140 pounds.

(i) * * *

(1) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter).

(2) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter).

7. In § 173.66, paragraph (e)(1) is revised to read as follows:

§ 173.66 Detonators.

(e) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter). Wooden boxes.

8. In § 173.68, paragraph (d)(1) is revised to read as follows:

§ 173.68 Detonating primers.

(d) * * *

(1) Specification 14, 15A, 16A, or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter). Wooden boxes.

9. In § 173.79, paragraph (a)(1) is revised to read as follows:

§ 173.79 Jet thrust units (jato), class A explosives; rocket motors, class A explosives; igniters, jet thrust (jato), class A explosives; and igniters, rocket motor, class A explosives.

(a) * * *

(1) Specification 14, 15A, 15E, 16A, or 19B (§§ 178.165, 178.168, 178.172, 178.185, 178.191 of this subchapter). Wooden

boxes, or wooden boxes, fiberboard lined.

10. In § 173.91, paragraph (a)(2) is revised; the introductory text of paragraphs (b)(1), (c)(1), (d)(1), (e)(1), and (g)(1), is revised to read as follows:

§ 173.91 Special fireworks.

(a) * * *
(2) Specification 15A, 15B, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes. Gross weight not to exceed 500 pounds.

(b) * * *
(1) Specification 13A, 15B, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.185, 178.190, 178.191 of this subchapter).

(c) * * *
(1) Specification 15A, 15B, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.185, 178.190, 178.191 of this subchapter).

(d) * * *
(1) Specification 13A, 15B, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.185, 178.190, 178.191 of this subchapter).

(e) * * *
(1) Specification 15A, 15B, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.185, 178.190, 178.191 of this subchapter).

(g) * * *
(1) Specification 15A, 15B, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes, or Spec. 12B (§ 178.205 of this subchapter) fiberboard boxes which must be constructed to comply with § 178.205-30 of this subchapter.

11. In § 173.92, the heading and paragraph (a)(1) are revised to read as follows:

§ 173.92 Jet thrust units (Jato), class B explosives; rocket motors, class B explosives; igniters, jet thrust (Jato), class B explosives; igniters, rocket motors, class B explosives; and starter cartridges, jet engine, class B explosives.

(a) * * *
(1) Specification 14, 15A, 15E, 16A, or 19B (§§ 178.165, 178.168, 178.172, 178.185, 178.191 of this subchapter). Wooden boxes, or wooden boxes, fiberboard lined.

12. In § 173.93, paragraphs (a)(5), (a)(6), (a)(8), (a)(9), (a)(11), (b)(3), (d)(3),

the introductory text of paragraph (e)(1), and the first sentence in paragraph (g)(1) are revised to read as follows:

§ 173.93 Propellant explosives (solid) for cannon, small arms, rockets, guided missiles, or other devices, and propellant explosives (liquid).

(a) * * *
(5) Specification 14, 15A, or 19B (§§ 178.165, 178.168, 178.191 of this subchapter). Wooden boxes, metal-lined, Spec. 2F (§ 178.25 of this subchapter). Gross weight not to exceed 200 pounds.

(6) Specification 14, 15A, or 19B (§§ 178.165, 178.168, 178.191 of this subchapter). Wooden boxes, or Spec. 23F or 23H (§§ 178.214, 178.219 of this subchapter) fiberboard boxes, with inside cloth or paper bags, not exceeding 25 pounds net weight each and capable of withstanding at least two drops on end from a height of 4 feet, without breakage or sifting of contents. Outside container not to exceed 50 pounds net weight.

(8) Specification 14, 15A, 15B, 15C, or 19B (§§ 178.165, 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes, or Spec. 12H, 23F, or 23H (§§ 178.209, 178.214, 178.219 of this subchapter) fiberboard boxes, with inside fiber or metal containers not exceeding 1½ pounds capacity each. Gross weight not to exceed 200 pounds in wooden boxes or 65 pounds in fiberboard boxes.

(9) Specification 14, 15A, 15B, 15C, or 19B (§§ 178.165, 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes, or Spec. 23F or 23H (§§ 178.214, 178.219 of this subchapter) fiberboard boxes, with not more than four strong inside tight metal containers of not more than 25 pounds each. The gross weight in fiberboard boxes may not exceed 65 pounds.

(11) Specification 14, 15A, 16A or 19B (§§ 178.165, 178.168, 178.185, 178.191 of this subchapter). Wooden boxes, not lined, authorized only for grains not less than 1-inch in diameter or 3 inches in length, provided such grains are tightly packed and are coated with a protective material. Gross weight not to exceed 200 pounds.

(b) * * *
(3) Specification 15A or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes, metal-lined, Specification 2F (§ 178.25 of this subchapter).

(d) * * *
(3) Specification 15A or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes, metal-lined.

Specification 2F (§ 178.25 of this subchapter).

(e) * * *
(1) Specification 15A, 15B, 15E, or 19B (§§ 178.168, 178.169, 178.172, 178.191 of this subchapter).

(g) * * *
(1) Solids in tightly closed metal cans or fiber containers, not exceeding 1 pound each, or in inside metal cans or fiber containers containing not more than one grain of propellant, not exceeding 5 pounds each, and liquids in polyethylene bottles compatible with contained liquid, with screw-cap closures taped, not exceeding 1-pound or 16 fluid ounces capacity each, packed in an outside wooden box, Spec. 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter); or outside fiberboard box Spec. 12B, 23F, or 23H (§§ 178.205, 178.214, 178.219 of this subchapter).

13. In § 173.94, paragraph (a)(1) is revised to read as follows:

§ 173.94 Explosive power devices, Class B.

(a) * * *
(1) Specification 14, 15A, 15E, 16A, or 19B (§§ 178.165, 178.168, 178.172, 178.185, 178.191 of this subchapter). Wooden boxes or wooden boxes, fiberboard lined.

14. In § 173.95, paragraph (a)(1) is revised to read as follows:

§ 173.95 Rocket engines (liquid), Class B explosives.

(a) * * *
(1) Specification 14, 15A, 15E, 16A, or 19B (§§ 178.165, 178.168, 178.172, 178.185, 178.191 of this subchapter). Wooden boxes or wooden boxes, fiberboard lined.

15. In § 173.108, paragraph (a)(2) is revised to read as follows:

§ 173.108 Common fireworks, signal flares, hand signal devices, smoke signals, smoke candles, smoke grenades, smoke pots, and Very signal cartridges.

(a) * * *
(2) Specification 15A, 15B, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.185, 178.190, or 178.191 of this subchapter). Wooden boxes. Gross weight not to exceed 100 pounds, except gross weight of 500 pounds is authorized for Very signal cartridges only.

16. In § 173.109, paragraph (a)(1) is revised to read as follows:

§ 173.109 Toy caps.

(a) * * *

(1) Specification 15A, 15B, 16A, 19A or 19B (§§ 178.168, 178.169, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes. Gross weight not to exceed 150 pounds.

* * * * *

17. In § 173.111, paragraph (a)(1) is revised to read as follows:

§ 173.111 Cigarette loads, explosive auto alarms, toy propellant devices, toy smoke devices, trick matches, and trick noise makers, explosive.

(a) * * *

(1) Specification 15A, 15B, 16A, 19A or 19B (§§ 178.168, 178.169, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes. Gross weight not to exceed 150 pounds.

* * * * *

18. In § 173.112, paragraph (a)(1) is revised to read as follows:

§ 173.112 Oil well cartridges.

(a) * * *

(1) Specification 15A, 15B, 16A, 19A or 19B (§§ 178.168, 178.169, 178.185, 178.190, or 178.191 of this subchapter). Wooden boxes. Gross weight not to exceed 150 pounds.

* * * * *

19. In § 173.119, the introductory text of paragraph (m)(2) is revised and paragraph (m)(14) is revised to read as follows:

§ 173.119 Flammable liquids not specifically provided for.

(a) * * *

(m) * * *

(2) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter).

* * * * *

(14) Specification 112A200W or 114A340W (§§ 179.100, 179.101 of this subchapter). Tank cars. Authorized only for propylene oxide except 112A200W also authorized for acrylonitrile and dichlorobutene.

* * * * *

20. In § 173.121, paragraph (a)(3) is revised to read as follows:

§ 173.121 Carbon disulfide (disulfide).

(a) * * *

(3) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, or 178.191 of this subchapter). Wooden boxes with strong inside metal containers or with inside glass or earthenware container not over 5 pints capacity each.

* * * * *

21. In § 173.122, paragraphs (a)(2) and (b)(1) are revised to read as follows:

§ 173.122 Acrolein, inhibited.

(a) * * *

(2) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with strong inside tight metal containers not over 5 gallons capacity each.

* * * * *

(b) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, or 178.191 of this subchapter). Wooden boxes, or Spec. 12B (§ 178.205 of this subchapter) fiberboard boxes having not more than one inside glass container of not over 1-quart capacity, securely cushioned within a metal container.

22. In § 173.123, paragraph (a)(1) is revised to read as follows:

§ 173.123 Ethyl chloride.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, or 178.191 of this subchapter). Wooden boxes with glass, earthenware, or metal inside containers not over 1-pound capacity each.

* * * * *

23. In § 173.124, the first sentence of paragraph (a)(1) is revised to read as follows:

§ 173.124 Ethylene oxide.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.191 of this subchapter) wooden boxes and Spec. 12B (§ 178.205 of this subchapter) fiberboard boxes, with inside metal containers not over 12-ounce capacity each.

* * * * *

24. In § 173.133, paragraphs (a)(1) and (b)(1) are revised to read as follows:

§ 173.133 Spirits of nitroglycerin.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes lined with paraffined paper, Spec. 2L (§ 178.30 of this subchapter), and with inside metal containers, securely closed with rubber stoppers tied in place. The inside containers must be entirely surrounded by at least 2 inches of dry, fine sawdust or kieselguhr. Not more than 6 quarts of this mixture may be packed in any outside wooden box.

(b) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside

glass containers not over 1-quart capacity each, cushioned by at least 2 inches of dry, fine sawdust or kieselguhr.

25. In § 173.134, paragraph (a)(2) is revised to read as follows:

§ 173.134 Pyroforic liquids, n.o.s.

(a) * * *

(2) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes or Spec. 12B (§ 178.205 of this subchapter) fiberboard boxes enclosing not more than four strong tight metal cans with inside containers of glass or metal, not over 1-quart capacity each, having positive screwcap closures adequately gasketed ahead of the threads. Inside containers must be cushioned on all sides with dry, absorbent, incombustible material in a quantity sufficient to absorb the entire contents. The strong tight metal cans must be closed by positive means, not by friction.

* * * * *

26. In § 173.135, paragraph (a)(1) is revised to read as follows:

§ 173.135 Diethyl dichlorosilane, dimethyl dichlorosilane, ethyl dichlorosilane, ethyl trichlorosilane, methyl trichlorosilane, trimethyl chlorosilane, and vinyl trichlorosilane.

(a) * * *

(1) Specification 15A, 16B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-gallon capacity each, securely closed and cushioned with incombustible absorbent material.

* * * * *

26a. In § 173.136, paragraph (a)(1) is revised to read as follows:

§ 173.136 Methyl dichlorosilane and trichlorosilane.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-quart capacity each, securely closed and cushioned with incombustible absorbent material.

* * * * *

27. In § 173.137, paragraph (a)(1) is revised to read as follows:

§ 173.137 Lithium aluminum hydride, ethereal.

(a) * * *

(1) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-quart capacity each, enclosed in air-tight metal cans and cushioned with

sufficient incombustible cushioning material to completely absorb the contents in event of leakage.

28. In § 173.139 paragraphs (a)(1) and (a)(2) are revised to read as follows:

§ 173.139 Ethylene imine, inhibited, and propylene imine, inhibited.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside securely sealed glass ampules or glass bottles, contents not over 16 fluid ounces or 1-pound each, in tightly closed metal cans. If more than one ampule or bottle is packed in a metal can, ampules or bottles must be separated by fiberboard partitions. Ampules or bottles must be cushioned with sufficient incombustible cushioning material to completely absorb contents in event of leakage. Not more than 5 pints of liquid may be packed in any outside wooden box.

(2) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with not more than four inside metal drums, Spec. 37B (§ 178.132 of this subchapter), not over 1-gallon capacity each, or not more than one Spec. 37B metal drum of 5 gallons capacity, in one outside box. Inside drums must be surrounded on all sides with incombustible absorbent cushioning material.

29. In § 173.140, paragraph (a)(1) is revised to read as follows:

§ 173.140 Zirconium, metallic, solutions, or mixtures thereof, liquid.

(a) * * *

(1) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with inside metal containers. Each inside container shall not contain more than 20 individual glass or porcelain jars, not exceeding 2-ounce capacity each, securely closed and completely cushioned in incombustible cushioning material in sufficient quantity to completely absorb the contents in event of leakage.

30. In § 173.141, paragraph (a)(1) is revised to read as follows:

§ 173.141 Amyl mercaptan, butyl mercaptan, ethyl mercaptan, isopropyl mercaptan, propyl mercaptan, and aliphatic mercaptan mixtures.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with securely closed inside metal containers

not over 5 gallons capacity each, or in tightly closed glass bottles not exceeding 1-quart capacity each, securely cushioned in incombustible cushioning material in sufficient quantity to completely absorb the contents in event of leakage.

31. In § 173.143, paragraph (a)(2) is revised to read as follows:

§ 173.143 Methylchloromethyl ether, anhydrous.

(a) * * *

(2) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon capacity each, except that inside containers up to 3 gallons each are authorized when only one inside container is packed in each outside box.

32. In § 173.145, paragraph (a)(2) is revised to read as follows:

§ 173.145 Dimethylhydrazine, unsymmetrical, and methylhydrazine.

(a) * * *

(2) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with inside glass bottles not exceeding 1-gallon capacity each, cushioned by means of vermiculite within tin cans which shall be tightly closed, or containers not over 2 quarts capacity each made of aluminum not less than 0.04 inch thick. Closures and gaskets must be of material which will not react dangerously with or be decomposed by contact with the contents.

33. In § 173.154, paragraph (a)(8) is revised to read as follows:

§ 173.154 Flammable solids, organic peroxide solids and oxidizers not specifically provided for.

(a) * * *

(8) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside containers.

34. In § 173.155, paragraph (a)(1) is revised to read as follows:

§ 173.155 Bags, nitrate of soda, empty and unwashed.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes.

35. In § 173.156, paragraph (a)(1) is revised to read as follows:

§ 173.156 Barium peroxide and calcium peroxide.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-pound capacity each; or with inside glass containers not over 5 pounds capacity each, cushioned with incombustible cushioning material; or with inside metal containers or lining, Spec. 2F (§ 178.25 of this subchapter).

36. In § 173.157, paragraph (a)(1) is revised to read as follows:

§ 173.157 Benzoyl peroxide, chlorobenzoyl peroxide (para), cyclohexanone peroxide, dimethylhexane dihydroperoxide, lauroyl peroxide, or succinic acid peroxide, wet.

(a) * * *

(1) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with inside metal containers or lining, Specification 2F (§ 178.25 of this subchapter), or with securely closed inside paper bags lined with polyethylene at least 0.002 inch thick, or with inside aluminum drums of at least 16 gage metal throughout. Net weight (dry weight) in each inside DOT-2F metal container or in each paper bag may not exceed 1-pound. Gross weight may not exceed 200 pounds.

37. In § 173.158, paragraph (a)(1) is revised to read as follows:

§ 173.158 Benzoyl peroxide, dry; chlorobenzoyl peroxide (para), dry; cyclohexanone peroxide, dry; lauroyl peroxide, dry; or succinic acid peroxide, dry.

(a) * * *

(1) Specification 15A, 15B, 19A, or 19B (§§ 178.168, 178.169, 178.190, 178.191 of this subchapter). Wooden boxes with inside fiber containers securely closed by taping or gluing, or inside securely closed paper bags lined with 0.002 inch thick polyethylene, not over 1-pound capacity each. Except for lauroyl peroxide, dry, each inside container must be surrounded by an appropriate fire-resistant cushioning material. The net weight in outside container must not exceed 50 pounds, except that for lauroyl peroxide, dry, a net weight not over 100 pounds is authorized.

38. In § 173.160, paragraph (a)(1) is revised to read as follows:

§ 173.160 Calcium chlorite and sodium chlorite.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 2 1/4 pounds capacity each or metal not over 5 pounds capacity each.

39. In § 173.161, paragraph (a)(1) is revised to read as follows:

§ 173.161 Calcium phosphide.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, or 178.191 of this subchapter). Wooden boxes, lined, Spec. 2F (§ 178.25 of this subchapter), and with hermetically sealed inside containers.

40. In § 173.163, paragraph (a)(4) is revised to read as follows:

§ 173.163 Chlorate of soda, chlorate of potash, and other chlorates.

(a) * * *

(4) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with tightly closed inside containers which must be of metal not over 10 pounds capacity each, or of glass not over 5 pounds each, or of fiber, Spec. 2G (§ 178.26 of this subchapter), not over 5 pounds capacity each.

41. In § 173.164, paragraph (a)(3) is revised to read as follows:

§ 173.164 Chromic acid or chromic acid mixture, dry.

(a) * * *

(3) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes, with inside glass bottles of not over 5 pounds capacity each, with closures securely fastened; each bottle individually packed in a tight metal container, and cushioned therein with incombustible mineral packing material; or with inside tightly closed metal containers, not over 10 pounds capacity each.

42. In § 173.175, paragraph (a)(1) is revised to read as follows:

§ 173.175 Lacquer base, or lacquer chips, dry.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside

metal containers. Spec. 2F (§ 178.25 of this subchapter).

43. In § 173.176, paragraph (d)(1) is revised to read as follows:

§ 173.176 Matches.

(d) * * *

(1) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes, with inside containers. Gross weight must not exceed 100 pounds.

44. In § 173.177, paragraph (a)(2) is revised to read as follows:

§ 173.177 Motion picture film and X-ray film.

(a) * * *

(2) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with each reel in a tightly closed metal can, or strong cardboard or fiberboard box with cover held in place by adhesive tape or paper. Gross weight must not exceed 200 pounds.

45. In § 173.184, paragraph (a)(2) is revised to read as follows:

§ 173.184 Nitrocellulose or collodion, cotton, wet, or nitrocellulose, collodion, granular, or flake, wet, or nitrostarch, wet, or nitroguanidine, wet.

(a) * * *

(2) Specification 14, 15A, 15B, or 19B (§§ 178.165, 178.168, 178.169, 178.191 of this subchapter). Wooden boxes lined, Spec. 2M (§ 178.31 of this subchapter).

46. In § 173.187, the heading, the introductory text of paragraph (a) and paragraph (a)(1) are revised to read as follows:

§ 173.187 Potassium peroxide; potassium superoxide; sodium peroxide or sodium superoxide.

(a) Potassium peroxide, potassium superoxide, sodium peroxide or sodium superoxide must be packed in specification containers as follows:

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside air-tight metal cans.

47. In § 173.188, paragraph (a)(1) is revised to read as follows:

§ 173.188 Phosphoric anhydride.

(a) * * *

(1) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with

inside tightly stoppered glass bottles not over 1-pound capacity each; or metal cans, not over 3 pounds capacity each, hermetically sealed (soldered) or closed with cork securely held in place by metal strap soldered in position. Inside containers must be cushioned with elastic incombustible packing materials.

48. In § 173.189, paragraph (a)(1) is revised to read as follows:

§ 173.189 Phosphorus, amorphous, red.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside air-tight metal containers.

49. In § 173.190, paragraph (b)(1) and (c)(1) are revised to read as follows:

§ 173.190 Phosphorus, white or yellow.

(b) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside hermetically sealed (soldered) metal cans, included in other hermetically sealed (soldered) metal cans, or inside water-tight metal cans containing not over 1-pound with screw-top closures, or Spec. 2F (§ 178.25 of this subchapter).

(c) * * *

(1) Specification 15A, 15B, 19A or 19B (§§ 178.168, 178.169, 178.190, 178.191 of this subchapter). Wooden boxes with inside hermetically sealed (soldered) metal cans, included in other water-tight metal cans containing not over 1-pound with screw-top closures, or with soldered closures.

50. In § 173.191, paragraph (a)(1) is revised to read as follows:

§ 173.191 Phosphorus pentachloride.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or glazed earthenware containers, not over 25 pounds capacity each, cushioned with mineral packing. When inside containers are packed in the same outside container with other articles, they must be enclosed in tightly closed metal cans. Net weight not to exceed 50 pounds in each outside box.

51. In § 173.193, paragraph (a)(1) is revised to read as follows:

§ 173.193 Picric acid, trinitrobenzoic acid, or urea nitrate, wet.

(a) * * *

(1) Specification 15A or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers, cushioned and tightly closed. The net weight in an outside package must not exceed 25 pounds dry weight. (See § 173.65(e) for shipment of wet picric acid, wet trinitrobenzoic acid and wet urea nitrate in excess of 25 pounds, and § 173.192 for exemption up to 16 ounces.)

52. In § 173.195, paragraphs (a)(1) and (b)(2) are revised to read as follows:

§ 173.195 Pyroxylin plastic scrap.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes lined, Spec. 2F or 2M (§§ 178.25, 178.31 of this subchapter). Gross weight must not exceed 450 pounds each.

(b) * * *

(2) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with tightly closed inside metal containers.

53. In § 173.197, paragraph (a)(1) is revised to read as follows:

§ 173.197 Pyroxylin plastics, in sheets, rolls, rods, or tubes.

(a) * * *

(1) Specification 15A, 15B, 19A, or 19B (§§ 178.168, 178.169, 178.190, 178.191 of this subchapter). Wooden boxes.

54. In § 173.201, paragraph (a)(2) is revised to read as follows:

§ 173.201 Rubber scrap, rubber buffings, reclaimed rubber, or regenerated rubber.

(a) * * *

(2) Specification 15A or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes lined, Spec. 2F or 2M (§§ 178.25, 178.31 of this subchapter).

55. In § 173.202, paragraph (a)(1) is revised to read as follows:

§ 173.202 Sodium metal liquid alloy, potassium metal liquid alloy, and sodium potassium liquid alloy.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal containers of a type examined by the Bureau of Explosives and approved by the Associate Director for HMR. Inside containers must be cushioned with incombustible cushioning material. Each container must have been tested

hydrostatically to a pressure of not less than 60 pounds per square inch. Closing devices must be protected from injury. Not more than 300 pounds of sodium or potassium liquid alloy may be shipped in one outside box.

56. In § 173.203, the introductory text of paragraph (a)(1) is amended to read as follows:

§ 173.203 Tetranitromethane.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter).

57. In § 173.204, paragraph (a)(1) is revised to read as follows:

§ 173.204 Sodium hydrosulfite.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not exceeding 5 pounds capacity each, or metal containers.

58. In § 173.205, paragraph (a)(1) is revised to read as follows:

§ 173.205 Sodium picramate, wet.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers not exceeding 1-quart capacity each, and cushioned in outside container.

59. In § 173.206, paragraphs (b)(1), (e)(1), and (f) are revised to read as follows:

§ 173.206 Sodium or potassium, metallic; sodium amide; sodium potassium alloys; sodium aluminum hydride; lithium metal; lithium silicon; lithium ferro silicon; lithium hydride; lithium borohydride; lithium aluminum hydride; lithium acetylide-ethylene diamine complex; aluminum hydride; cesium metal; rubidium metal; zirconium hydride, powdered.

(b) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal drums, Spec. 37A or 37B (§§ 178.131, 178.132 of this subchapter) having welded side seams, net weight not over 30 pounds, or with inside glass containers, each enclosed in a tin container.

(e) * * *

(1) Specification 15A, 15B, 19A, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside air-tight copper cartridges having a minimum wall thickness of 0.02-inch. Cartridges having less than 0.022 inch wall thickness must be separated or securely cushioned in the boxes. Gross weight must not exceed 75 pounds.

(f) Lithium batteries comprised of one or more cells are not subject to the requirements of this subchapter, if they meet the following requirements.

(1) Each cell may contain no more than 0.5 gram of lithium or lithium alloy.

(2) Each battery may contain an aggregate quantity of no more than 1 gram of lithium or lithium alloy.

(3) Each cell must be hermetically sealed.

(4) Cells must be separated so as to prevent short circuits.

(5) Batteries must be packed in strong outside packaging except when installed in electronic devices.

(6) If a battery contains more than 0.5 gram of lithium or lithium alloy, it may not contain a liquid or gas that is a hazardous material according to this subchapter unless the liquid or gas, if free, would be completely absorbed or neutralized by other materials in the battery.

60. In § 173.207, paragraphs (a)(1) and (b)(1) are revised to read as follows:

§ 173.207 Sulfide of sodium or sulfide of potassium, fused or concentrated, when ground.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside bottles enclosed in tightly closed metal cans, or hermetically sealed (soldered) metal cans.

(b) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside bottles of not more than 5 pounds capacity each, or tightly sealed metal cans.

61. In § 173.208, paragraphs (a)(1) and (b)(1) are revised to read as follows:

§ 173.208 Titanium metal powder, wet or dry.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal cans not exceeding 1-gallon each, and not more than 12 metal cans in one

outside box; or not more than 1 inside metal can of not less than 22-gauge metal and not over 10 gallons capacity. Metal cans must be tightly closed.

(b) * * *
(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.190, 178.191 of this subchapter). Wooden boxes with inside metal containers, closed by push-in covers, held in place by soldering at least four points, or in screw-cap metal cans. Inside containers must not exceed 10 pounds net weight each and must be cushioned by an incombustible material. Gross weight not to exceed 75 pounds.

62. In § 173.214, the introductory text of paragraphs (a)(1) and (c)(1) are revised to read as follows:

§ 173.214 Hafnium metal or zirconium metal, wet, minimum 25 percent water by weight, mechanically produced, finer than 270 mesh particle size; hafnium metal or zirconium metal, dry, in an atmosphere of inert gas, mechanically produced, finer than 270 mesh particle size; hafnium metal or zirconium metal, wet, minimum 25 percent water by weight, chemically produced (see Note 1), finer than 20 mesh particle size; hafnium metal or zirconium metal, dry, in an atmosphere of inert gas, chemically produced (see Note 1), finer than 20 mesh particle size.

(a) * * *
(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes or Spec. 6B or 6C (§§ 178.98, 178.99 of this subchapter) metal drums with inside glass or noncarbon polyethylene containers having net weight of not over 10 pounds each.

(c) * * *
(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes or Spec. 6B or 6C (§§ 178.98, 178.99 of this subchapter) or Spec. 17C or 17H (§§ 178.115, 178.116 of this subchapter) metal drums with inside glass or noncarbon polyethylene containers having net weight of not over 10 pounds each.

63. In § 173.216, paragraph (a)(1) is revised to read as follows:

§ 173.216 Zirconium picramate, wet.
(a) * * *
(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers of not over 1-quart capacity each, tightly stoppered and cushioned.

64. In § 173.218, paragraph (a)(1) is revised to read as follows:

§ 173.218 Isopropyl percarbonate, unstabilized.

(a) * * *
(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass, earthenware, or metal containers, of not over 2 gallons capacity each which must be maintained at a temperature below 0° F. Shipments are authorized for transportation by private or contract carrier by motor vehicle only.

65. § 173.221, paragraph (a)(2) is revised to read as follows:

§ 173.221 Liquid organic peroxides, n.o.s., and liquid organic peroxide solutions, n.o.s.

(a) * * *
(2) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass, earthenware, or metal containers, not over 1-gallon each, cushioned with incombustible packing material in sufficient quantity to absorb any leakage. Metal containers authorized only for materials which will not react dangerously with or be decomposed by contact with metal.

66. In § 173.222, paragraph (a)(1) is revised to read as follows:

§ 173.222 Acetyl peroxide and acetyl benzoyl peroxide, solution.

(a) * * *
(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon each, cushioned with incombustible packing material in sufficient quantity to absorb any leakage.

67. In § 173.223, paragraph (a)(1) is revised to read as follows:

§ 173.223 Peracetic acid.

(a) * * *
(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass, earthenware, or polyethylene containers not over 1-gallon capacity each, cushioned with sterile absorbent cotton or other cushioning material which will not react with the contents to generate heat. Polyethylene container must have a vented closure capable of preventing leakage of liquid contents.

Cushioning material must be in sufficient quantity to absorb any leakage. Boxes with inside polyethylene containers must be marked "Keep This Side Up."

68. In § 173.224, paragraph (a)(1) is revised to read as follows:

§ 173.224 Cumene hydroperoxide, dicumyl peroxide, diisopropylbenzene hydroperoxide, paramenthane hydroperoxide, pinane hydroperoxide, and tertiary butylisopropyl benzene hydroperoxide.

(a) * * *
(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers, not over 1-gallon each, cushioned with incombustible packing material in sufficient quantity to absorb any leakage.

69. In § 173.225, paragraphs (a) and (a)(1) are revised to read as follows:

§ 173.225 Phosphorus trisulfide, phosphorus sesquisulfide, phosphorus heptasulfide, and phosphorus pentasulfide.

(a) Phosphorus trisulfide, phosphorus sesquisulfide and phosphorus heptasulfide must be packaged as follows.

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal containers, hermetically sealed (soldered) or water-tight metal cans with screw-top closures.

70. In § 173.226, paragraph (a)(1) is revised to read as follows:

§ 173.226 Thorium metal, powdered.

(a) * * *
(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal containers, closed by push-in covers, held in place by soldering at least four points, or in screw-cap metal cans. Inside containers must not exceed 10 pounds net weight each. Gross weight not to exceed 75 pounds.

71. In § 173.230, the introductory text of paragraphs (a)(1) and (a)(4) are revised to read as follows:

§ 173.230 Sodium, metallic, dispersion in organic solvent.

(a) * * *

(1) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter). * * *

(4) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter). * * *

72. In § 173.231, paragraph (a)(1) is revised to read as follows:

§ 173.231 Calcium, metallic, crystalline.

(a) * * *
(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside airtight metal containers not over 1-gallon capacity each.

73. In § 173.233, paragraph (a)(1) is revised to read as follows:

§ 173.233 Nickel catalyst, finely divided, activated or spent.

(a) * * *
(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside airtight metal containers having closing device fastened by positive means (not friction); or inside airtight glass containers of not over 1-quart capacity each, securely cushioned by an appropriate fire-resistant cushioning material.

74. In § 173.238, paragraphs (a)(1), (2) and (3) are revised to read as follows:

§ 173.238 Aircraft rocket engines (commercial) and/or aircraft rocket engine igniters (commercial).

(a) Aircraft rocket engines (commercial) and their igniters may be offered for transportation when of a type examined by the Bureau of Explosives and approved by the Associated Director for HMR to be so described and classed, and when packaged as follows:

(1) Specification 15A, 15B, 15E, 18A, or 19B (§§ 178.168, 178.169, 178.172, 178.185, 178.191 of this subchapter). Wooden boxes. Igniters must be packaged in sealed metal containers examined by the Bureau of Explosives and approved by the Associated Director for HMR and packed in wooden boxes as specified above when shipped separately from the aircraft rocket engines.

(2) Aircraft rocket engines (commercial), when examined by the Bureau of Explosives and approved by the Associated Director for HMR may be packed in the same outside shipping container with their separately packaged igniters. Igniters must be packed in separate sealed metal containers in strong inside containers.

(3) Aircraft rocket engines (commercial) and/or their igniters,

packed in any other manner than specified in paragraphs (a) (1) and (2) of this section, must be in containers of a type examined by the Bureau of Explosives and approved by the Associate Director for HMR.

75. In § 173.239, paragraph (a)(1) is revised to read as follows:

§ 173.239 Barium azide—50 percent or more water wet.

(a) * * *
(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 1-pound capacity each. Bottles shall have rubber stoppers wire tied for securement. If shipment is to take place at a time freezing weather is to be anticipated, a suitable antifreeze solution must be used to prevent freezing.

76. In § 173.245, paragraph (a)(7) is revised to read as follows:

§ 173.245 Corrosive liquids not specifically proved for.

(a) * * *
(7) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside containers which must be glass, earthenware, polyethylene or other nonfragile plastic material (bags are not authorized), not over 1-gallon each, except that inside containers up to 3 gallons are authorized when only one is packed in each outside container.

77. In § 173.247, paragraphs (a)(1), (a)(5), and (a)(6) are revised to read as follows:

§ 173.247 Acetyl bromide; acetyl chloride; acetyl iodide; antimony pentachloride; benzoyl chloride; boron trifluoride-acetic acid complex; chromyl chloride; dichloroacetyl chloride; diphenylmethyl bromide solutions; pyrosulfuryl chloride; silicon chloride; sulfur chloride (mono and di); sulfuryl chloride; thionyl chloride; tin tetrachloride (anhydrous); titanium tetrachloride; trimethyl acetyl chloride.

(a) * * *
(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon each, except that inside containers up to 3 gallons each are authorized when only one is packed in an outside box.

(5) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170,

178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside aluminum bottles of 99 percent pure aluminum not over 1-gallon capacity each, having aluminum screw caps with gasket resistant to contents. Authorized for chromyl chloride only.

(6) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside containers of securely closed soft-lead tubes having not more than 65 fluid ounces capacity each, individually packed in securely closed steel tubes, with not more than 3 such steel tubes fastened together as a unit. The inside units shall be cushioned on all sides with an appropriate fire-resistant cushioning material. Authorized only for titanium tetrachloride.

78. In § 173.248, paragraph (a)(3) is revised to read as follows:

§ 173.248 Acid sludge, sludge acid, spent sulfuric acid, or spent mixed acid.

(a) * * *
(3) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon each, except that inside containers up to 3 gallons each are authorized when only one is packed in each outside box.

79. In § 173.249, paragraph (a)(2) and (b)(3) are revised to read as follows:

§ 173.249 Alkaline corrosive liquids, n.o.s.; alkaline liquids, n.o.s.; alkaline corrosive battery fluid; potassium fluoride solution; potassium hydrogen fluoride solution; sodium aluminate, liquid; sodium hydroxide solution; potassium hydroxide solution; boiler compound, liquid, solution.

(a) * * *
(2) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 2 gallons each, or with metal containers, not over 5 gallons each.

(b) * * *
(3) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon each, or with inside metal cans, not over 5 gallons each.

80. In § 173.251, the introductory text of paragraph (b)(1) is revised to read as follows:

§ 173.251 Boron trichloride and boron tribromide.

(b) * * *

(1) Specification 15A, 15B, 15P, or 19B (§§ 178.168, 178.169, 178.170, 178.182, 178.191 of this subchapter). * * *

81. In § 173.252, paragraph (a)(1) is revised to read as follows:

§ 173.252 Bromine.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-quart each, or with stone or earthenware jugs not over 1-gallon each.

82. In § 173.253, the heading and paragraph (a)(1) are revised to read as follows:

§ 173.253 Chloroacetyl chloride.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 5 pints capacity each, cushioned by an appropriate fire-resistant cushioning material.

83. In § 173.254, paragraph (a)(2) is revised to read as follows:

§ 173.254 Chlorosulfonic acid and mixtures of chlorosulfonic acid-sulfur trioxide.

(a) * * *

(2) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon each, except that inside containers up to 3 gallons are authorized when only one is packed in each outside box.

84. In § 173.255, paragraph (a)(3) is revised to read as follows:

§ 173.255 Dimethyl sulfate.

(a) * * *

(3) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with one inside glass container not over 1-quart capacity, closed by ground glass stopper or other equally efficient closure securely fastened in place, and cushioned within a hermetically sealed (soldered) metal

can with an appropriate fire-resistant absorbent, cushioning material, the can then being cushioned with an appropriate fire-resistant cushioning material in the outside box.

85. In § 173.257, paragraph (a)(7) and (c) are revised to read as follows:

§ 173.257 Electrolyte (acid) and alkaline corrosive battery fluid.

(a) * * *

(7) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside polyethylene or other electrolyte acid resistant plastic containers, not over 1-gallon each.

(c) Electrolyte acid or corrosive battery fluid contained in polyethylene containers not over 2 quarts capacity each and packaged not more than three containers in Specification 15A, 15B, 15C, 16A, 19A, or 19B wooden box (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter), or packaged as prescribed in paragraph (a)(6) of this section, and bearing a corrosive label, may be securely attached to self-propelled vehicles or mobile agricultural machinery, or securely braced on a railcar floor.

86. In § 173.259, paragraph (a)(1) is revised to read as follows:

§ 173.259 Electrolyte, acid, or alkaline corrosive battery fluid, packed with battery charger, radio current supply device, or electronic equipment and actuating devices.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes, provided the liquid is in bottles securely closed and cushioned as prescribed in paragraph (a) of this section, and separated from charger supply device, and parts, or electronic equipment, by a strong solid wooden partition.

87. In § 173.261, paragraph (a)(1) is revised to read as follows:

§ 173.261 Fire-extinguisher charges.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 5 pints each, and cushioned with an appropriate cushioning material.

88. In § 173.262, paragraphs (a)(4) and (b)(3) are revised to read as follows:

§ 173.262 Hydrobromic acid.

(a) * * *

(4) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon each, except that inside containers not over 3 gallons are authorized when only one is packed in each outside box.

(b) * * *

(3) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes with one inside polyethylene bottle with screw-up closure, not over 1-gallon capacity.

89. In § 173.263, paragraph (a)(1) is revised to read as follows:

§ 173.263 Hydrochloric (muriatic) acid; hydrochloric (muriatic) acid mixtures; hydrochloric (muriatic) acid solution, inhibited; sodium chlorite solution (not exceeding 32 percent sodium chlorite); and cleaning compounds, aqueous, containing hydrochloric (muriatic) acid.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass, earthenware, polyethylene or other nonfragile plastic containers resistant to the liquid (bags are not authorized), not over 1-gallon each, except that inside containers not over 3 gallons each are authorized when only one is packed in each outside box.

90. In § 173.264, paragraph (a)(1) is revised to read as follows:

§ 173.264 Hydrofluoric acid; White acid.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside containers which are hydrofluoric acid resistant. These containers are authorized only for strengths of acid for which they are adequate, but in no case may the strength of acid exceed 70 percent.

91. In § 173.265, the spelling of hydrofluosilicic is corrected to read hydrofluorosilicic in the heading and each time it appears in paragraphs (a), (a)(1), (b), (c) and (d); paragraphs (a)(1) and (c)(3) are revised to read as follows:

§ 173.265 Hydrofluorosilicic acid.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside containers of natural rubber, ceresine, or other material of equal efficiency resistant to hydrofluorosilicic acid.

(c) * * *

(3) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-gallon capacity each, with rubber or ground-in glass stoppers.

92. In § 173.265, paragraphs (a)(1), (b)(1) and (c)(4) are revised to read as follows:

§ 173.266 Hydrogen peroxide solution in water.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 1-quart capacity each, bottles must have vented closure and be packed in metal container vented at bottom, packed in another metal container vented at top; cushioning material shall be used between glass bottle and inner container and between inner and outer metal containers; cushioning material shall be vermiculite or equivalent in an amount at least 10 times the volume of the solution shipped and shall be wet with at least 20 percent water by volume to which has been added a stabilizing agent.

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers of not over 1-gallon capacity each. Inside containers must be well cushioned with appropriate fire-resistant cushioning material. Cushioning of inside containers in outside wooden boxes by means of plastic packing, such as wood shavings or large corks fastened in position, is authorized if the outside package will pass the swing test for boxed carboys in Specification 1A (§ 178.1 of this subchapter).

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this

subchapter). Wooden boxes with inside containers of polyethylene, or other plastic material resistant to the lading, not over 1-pint capacity or 16 ounces by weight each. Inside containers must be securely cushioned with an appropriate fire-resistant cushioning material.

93. In § 173.267, paragraphs (a)(1) and (c)(1) are revised to read as follows:

§ 173.267 Mixed acid (nitric and sulfuric acid) (nitrating acid).

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 7 pounds capacity each, individually inclosed in tightly closed metal cans and cushioned therein with incombustible mineral material.

(c) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles with glass stoppers held in place by plaster of Paris covered by strong cloth and securely tied. Glass bottles having necks with molded screw threads must be closed by threaded type acid-resistant plastic caps equipped with an elastic composition cushion and with glass, porcelain or similar liner impervious to the acid. Such caps, when secured in place by at least one complete continuous thread, must be capable of preventing any leakage of the acid.

94. In § 173.269, paragraphs (d)(1), (e)(1), (i)(1) and (j)(1) are revised to read as follows:

§ 173.270 Nitric acid.

(d) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 5 pints capacity each, individually inclosed in tightly closed metal cans and cushioned therein with appropriate fire-resistant cushioning material. (See paragraphs (g) and (h) of this section).

(e) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 5 pints capacity

each. (See paragraphs (g) and (h) of this section).

(i) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles with glass stoppers held in place by plaster of Paris covered by strong cloth and securely tied. Glass bottles having necks with molded screw threads must be closed by threaded-type acid-resistant plastic caps equipped with an elastic composition cushion and with glass, porcelain or similar liner impervious to the acid. Such caps, when secured in place by at least one complete continuous thread, must be capable of preventing any leakage of the acid.

(j) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A, 19B or 12B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191, 178.205 of this subchapter). Wooden or fiberboard boxes with not over 12 inside glass ampoules having a capacity of not over 4 fluid ounces each. Each ampoule must be well cushioned with incombustible mineral packing material, such as vermiculite or other equally efficient material, and be packed in a cylindrical cardboard tube having wall thickness of at least 1/8 inch, with the inside coated with wax, and be equipped with metal bottom and metal screw cap top. Inside packages must be separated by efficient means.

95. In § 173.269, paragraph (a)(1) is revised to read as follows:

§ 173.269 Perchloric acid.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 5 pints capacity each, cushioned with incombustible mineral material in sufficient quantity to absorb any leakage.

96. In § 173.270, paragraph (a)(1) is revised to read as follows:

§ 173.270 Phosphorus tribromide.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon capacity each, except that inside containers up to 3 gallons each

are authorized when only one container is packed in an outside box.

97. In § 173.271, paragraph (a)(4) is revised to read as follows:

§ 173.271 Phosphorus oxybromide, phosphorus oxychloride, phosphorus trichloride, and thiophosphoryl chloride.

(a) * * *

(4) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon capacity each, except that inside containers not over 3 gallons each are authorized when only one container is packed in an outside box.

98. In § 173.272, paragraphs (g) and (i)(1) are revised to read as follows:

§ 173.272 Sulfuric acid.

(g) Sulfuric acid concentration of greater than 95 percent up to and over 100.5 percent. Authorized packaging is described in paragraphs (i)(1)-(4), (h) and (j)-(22), and (k) of paragraph (i) of this section.

(i) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-gallon capacity each, except that inside containers not over 3 gallons each are authorized when only one container is packed in an outside box.

99. In § 173.273, paragraph (a)(1) is revised to read as follows:

§ 173.273 Sulfur trioxide.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-gallon each.

100. In § 173.274, paragraph (a)(1) is revised to read as follows:

§ 173.274 Fluorosulfonic acid.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside containers not over 1-gallon each, except that inside containers not over 3 gallons each are authorized when only one container is packed in an outside box, as prescribed in Note 1 and 2 to this section.

101. In § 173.275, paragraph (a)(1) is revised to read as follows:

§ 173.275 Difluorophosphoric acid, anhydrous; monofluorophosphoric acid, anhydrous; hexafluorophosphoric acid; and mixtures thereof.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter) wooden boxes, Spec. 12B (§ 178.206 of this subchapter) fiberboard boxes, or Spec. 21C (§ 178.224 of this subchapter) fiber drums with inside polyethylene or other nonfragile plastic bottles resistant to the fuming, not over 2 gallons capacity each, closed by means of threaded acid-resistant caps; caps must have at least one complete continuous thread and be additionally sealed to the bottle to prevent turning of cap after bottle is closed.

102. In § 173.276, paragraph (a)(2) is revised to read as follows:

§ 173.276 Anhydrous hydrazine and hydrazine solution.

(a) * * *

(2) Specification 15A, 15B, 15C, 16A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not exceeding 1-gallon capacity each, cushioned by means of vermiculite within tin cans which shall be tightly closed.

103. In § 173.277, paragraph (a)(1) is revised to read as follows:

§ 173.277 Hypochlorite solutions.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19B or 12B (§§ 178.168, 178.169, 178.170, 178.190, 178.191, 178.206 of this subchapter). Wooden or fiberboard boxes with inside glass, earthenware, or polyethylene containers of not more than 1-gallon capacity each. Gross weight must not exceed 65 pounds nor contain more than 4 glass or earthenware inside containers if their capacity is greater than 5 pints each, or more than six such inside polyethylene containers.

104. In § 173.278, paragraph (a)(1) and (b)(1) are revised to read as follows:

§ 173.278 Nitrohydrochloric acid.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers of not over 5 pints capacity each, individually inclosed in

tightly closed metal cans and cushioned therein with sufficient incombustible mineral material.

(b) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers of not over 5 pints capacity each, individually inclosed in tightly closed metal cans and cushioned therein with sufficient incombustible mineral material.

105. In § 173.280, paragraph (a)(1) is revised to read as follows:

§ 173.280 Trichloroethanes.

(a) * * *

(1) Specification 15A, 16B or 19B (§§ 178.168, 178.186, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-gallon capacity each, securely closed and cushioned with incombustible absorbent material.

106. In § 173.281, paragraph (a)(1) is revised to read as follows:

§ 173.281 Benzyl bromide (bromobenzene, alpha).

(a) * * *

(1) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 1-gallon capacity each, closed by means of screw caps which are resistant to action of the contents. Bottles must be packed in metal cans having slip-on or friction closures and cushioned in outside boxes with incombustible material.

107. In § 173.282, paragraph (a)(1) is revised to read as follows:

§ 173.282 Isopropyl percarbonate, stabilized.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 2 gallons capacity each which must be maintained at a temperature below 75°F. Shipments are authorized only by private or contract motor vehicle.

108. In § 173.283, paragraph (a)(1) is revised to read as follows:

§ 173.283 Chloroformates.

(a) * * *

(1) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of

this subchapter). Wooden boxes with inside glass containers of not over 1-pint capacity each, cushioned with incombustible mineral material.

109. In § 173.291, paragraph (a)(6) is revised to read as follows:

§ 173.291 Flame retardant compound, liquid.

(a) * * *

(6) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon capacity each, except that containers not over 3 gallons are authorized when only one is packed in an outside box.

110. In § 173.293, paragraph (a)(1) is revised to read as follows:

§ 173.293 Iodine monochloride.

(a) * * *

(1) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside containers not over 1-quart capacity each; or with stone or earthenware jugs not over 1-gallon capacity each.

111. In § 173.295, paragraph (a)(1) is revised to read as follows:

§ 173.295 Benzyl chloride.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon capacity each, except that inside containers not over 3 gallons each are authorized when only one is packed in an outside box.

112. In § 173.298, paragraph (a)(1) is revised to read as follows:

§ 173.298 Menthyltetrahydro phthalic anhydride.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass containers not over 1-gallon capacity each.

113. In § 173.302, the first sentence of paragraph (a)(2) is revised to read as follows:

§ 173.302 Charging of cylinders with non-liquefied compressed gases.

(a) * * *

(2) Specification 3HT (§ 178.44 of this subchapter) cylinders for aircraft use only, having a maximum service life of 24 years. * * *

114. In § 173.304, Note 7 to the table in paragraph (a)(2) is revised; the first two sentences of paragraph (f)(1) are revised to read as follows:

§ 173.304 Charging of cylinders with liquefied compressed gas.

(a) * * *

(2) * * *

Note 7.—Specification 3HT cylinders for aircraft use only, having a maximum service life of 24 years. Authorized only for nonflammable gases. Cylinders must be equipped with pressure relief devices only of the frangible disc type which meet the requirements of § 173.34(d). Each frangible disc must have a rated bursting pressure which does not exceed 90 percent of the minimum required test pressure of the cylinder. Discs with fusible metal backing are not permitted. Cylinders may be shipped only when packed in strong outside packagings.

(f) * * *

(1) Inside nonrefillable metal containers having a capacity not over 32 cubic inches. Containers must be packaged in Spec. 12B (§ 178.205 of this subchapter) fiberboard boxes equipped with top and bottom pads which will provide three complete thicknesses of fiberboard on top and bottom of each box, or Spec. 15A, 15B, 15C, 19A, or 19B (§§ 178.168, 178.169, 178.170, 178.190, 178.191 of this subchapter) wooden boxes. * * *

115. Section 173.315 is amended by revising paragraph (m) (5) and (8) and adding (7) to read as follows:

§ 173.315 Compressed gases in cargo tanks and portable tank containers.

(m) * * *

(5) Is loaded to a filling density no greater than 58 percent;

(6) Is securely mounted on a farm wagon; and

(7) Is operated in conformance with the requirements of Part 172 of this subchapter except that shipping papers are not required.

116. In § 173.329, paragraph (a)(2) is revised to read as follows:

§ 173.329 Bromacetone; chlorpicrin and methyl chloride mixtures; chlorpicrin and nonflammable, nonliquefied compressed gas mixtures.

(a) * * *

(2) Specification 15A, 15B, 15C, 16A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.191 of this subchapter). Wooden boxes with inside glass bottles

or tubes in hermetically sealed metal cans in corrugated fiberboard cartons, Spec. 2C (§ 178.22 of this subchapter). Bottles must not contain over 1-pound of liquid each, may not be filled to over 95 percent capacity, must be tightly and securely closed, and be cushioned in cans with at least ½ inch of absorbent material. Cans must be made of metal at least 32 gauge United States standard. Total amount of liquid in outside box must not exceed 24 pounds.

117. In § 173.331, the introductory text of paragraph (a) and the fifth sentence of paragraph (a)(1) are revised to read as follows:

§ 173.331 Gas identification sets.

(a) Gas identification sets containing Poison A materials, irritating materials, and chlorine must be packaged in Specification 15A, 15B, 19A, or 19B (§§ 178.168, 178.169, 178.190, or 178.191 of this subchapter) wooden boxes under the following conditions:

(1) * * * The cans must be packed in Specification 15A, 15B, 19A, or 19B (§§ 178.168, 178.169, 178.190, 178.191 of this subchapter) wooden boxes. * * *

118. In § 173.332, the introductory text of paragraph (c)(1) is revised to read as follows:

§ 173.332 Hydrocyanic acid, liquid (prussic acid) and hydrocyanic acid, liquefied.

(c) * * *

(1) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter).

119. In § 173.345, paragraph (a)(1) is revised to read as follows:

§ 173.345 Limited quantities of Poison B liquids.

(a) * * *

(1) In glass packagings not over 1-quart capacity each, or in metal containers or polyethylene bottles not over 1-gallon capacity each, packed in outside steel, or wooden boxes, barrels, or drums.

120. In § 173.346, paragraph (a)(9) is revised to read as follows:

§ 173.346 Poison B liquids not specifically provided for.

(a) * * *

(9) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon capacity each, except that

inside containers not over 3 gallons are authorized when only one is packed in each outside container; or with inside metal containers not over 10 gallons capacity each.

121. In § 173.347, paragraph (a)(1) is revised to read as follows:

§ 173.347 Aniline oil.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside metal containers not over 10 gallons capacity each, or glass bottles not over 1-pound capacity each. Not more than 25 glass bottles shall be packed in one outside box.

122. In § 173.351, paragraph (a)(1) is revised to read as follows:

§ 173.351 Hydrocyanic acid solutions.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes. Completed package, with glass bottles filled with water, must be capable of withstanding six four-foot drops onto solid concrete in the following order: bottom, four sides, and top, without breakage.

123. In § 173.352, paragraph (a)(3) is revised to read as follows:

§ 173.352 Sodium and potassium cyanide solutions, and cyanide solution, n.o.s.

(a) * * *

(3) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191, of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon capacity each, or inside metal containers not over 10 gallons capacity each, and without galvanizing.

124. In § 173.353, the introductory text of paragraph (a)(2) is revised to read as follows:

§ 173.353 Methyl bromide and methyl bromide mixtures.

(a) * * *

(2) Specification 15A, 15B, 15C, 16A, 19A, 19B or 12B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191, 178.205 of this subchapter).

125. In § 173.354, paragraph (a)(1) is revised to read as follows:

§ 173.354 Motor fuel antiknock compound or tetraethyl lead.

(a) * * *

(1) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers of not over 1-pint capacity each, or metal cans, enclosed in hermetically sealed (soldered) strong metal cans.

126. In § 173.356, paragraph (a)(2) is revised to read as follows:

§ 173.356 Thiophosgene.

(a) * * *

(2) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 1-quart capacity each, securely packed in absorbent incombustible cushioning material in sufficient quantity to absorb any leakage.

127. In § 173.357, the introductory text of paragraphs (a)(1) and (c)(1) are revised; paragraph (c)(2) is revised to read as follows:

§ 173.357 Chloropicrin and chloropicrin mixtures containing no compressed gas or Poison A liquid.

(a) * * *

(1) Specification 15A, 15B, 15C, 16A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.191 of this subchapter).

(c) * * *

(1) Specification 15A, 15B, 15C, 16A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.191 of this subchapter).

(2) Specification 15A, or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes, metal strapped, with chloropicrin absorbed in an efficient absorbing material packed in hermetically sealed metal cans not over 1-quart capacity each.

128. In § 173.358, paragraph (a)(3) is revised to read as follows:

§ 173.358 Hexaethyl tetraphosphate, methyl parathion, organic phosphorus compound, organic phosphorous compound, parathion, tetraethyl dithio pyrophosphate, and tetraethyl pyrophosphate, liquid.

(a) * * *

(3) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal containers of not over 5 gallons capacity each.

129. In § 173.359, paragraphs (a)(4) and (b)(3) are revised to read as follows:

§ 173.359 Hexaethyl tetraphosphate mixtures; methyl parathion mixtures; organic phosphorus compound mixtures; organic phosphorus compound mixtures; parathion mixtures; tetraethyl dithio pyrophosphate mixtures; and tetraethyl pyrophosphate mixtures, liquid (includes solutions, emulsions, or emulsifiable liquids).

(a) * * *

(4) Specification 15A, 15B, 15C, 15E, or 19B (§§ 178.168, 178.169, 178.170, 178.172, 178.191 of this subchapter). Wooden boxes with inside metal containers not over 10 gallons capacity each.

(b) * * *

(3) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal containers of not over 5 gallons capacity each.

130. In § 173.360, paragraph (a)(2) is revised to read as follows:

§ 173.360 Perchloromethylmercaptan.

(a) * * *

(2) Specification 15A, 15B, 15C, 16A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.191 of this subchapter). Wooden boxes with inside glass bottles not over 2 quarts capacity each, individually enclosed in tightly closed metal cans and cushioned therein with incombustible material. Net weight not to exceed 100 pounds in one outside box.

131. In § 173.362, paragraph (a)(2) is revised to read as follows:

§ 173.362 4-Chloro-o-toluidine hydrochloride.

(a) * * *

(2) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside glass, polyethylene, or equally efficient containers not over 1-quart capacity each. Glass containers must be securely packed in tightly closed metal containers.

132. In § 173.365, paragraphs (a)(8) and (a)(9) are revised to read as follows:

§ 173.365 Poison B solids not specifically provided for.

(a) * * *

(8) Specification 15A or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes with inside paper bags, securely closed and packed within a waterproof duplex bag. Spec. 2] (§ 178.28 of this subchapter). Net weight not to exceed 100 pounds in one outside box.

(9) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside metal cans not over 25 pounds capacity each; glass or earthenware containers not over 1-gallon capacity each; except that inside containers of not over 5 gallons capacity each and containing not over 25 pounds net weight are authorized when only one inside container is packed in each outside box. Fiber cans or boxes, Spec. 2G (§ 178.28 of this subchapter), or sliding-top wooden boxes, lined to prevent sifting, not over 25 pounds capacity each. Net weight not to exceed 100 pounds in one outside box.

133. In § 173.369, paragraphs (a)(7) and (a)(8) are revised to read as follows:

§ 173.369 **Carbolic acid (phenol), not liquid.**

(a) * * *

(7) Specification 15A, 15B, 15C, 16A, 19A or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.190, 178.191 of this subchapter). Wooden boxes with inside glass or earthenware containers not over 1-gallon or 5 pounds capacity each, except that inside containers not over 3 gallons or 15 pounds capacity each are authorized when only 1 is packed in each outside box; or with inside metal containers not over 10 gallons capacity each.

(8) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with inside metal containers, Spec. 2F (§ 178.25 of this subchapter). Net weight not to exceed 250 pounds in one outside box.

134. In § 173.370, paragraphs (a)(1) and (c)(2) are revised to read as follows:

§ 173.370 **Cyanides and cyanide mixtures, dry.**

(a) * * *

(1) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with inside metal containers, Spec. 2F (§ 178.25 of this subchapter), not over 25 pounds capacity each; or hermetically sealed (soldered) metal lining, Spec. 2F (§ 178.25 of this subchapter), or in glass bottles not over 5 pounds capacity each.

(c) * * *

(2) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Wooden boxes with inside metal containers, Spec. 2F (§ 178.25 of this subchapter), not over 25 pounds capacity each; or hermetically

sealed (soldered) metal lining. Spec. 2F (§ 178.25 of this subchapter).

135. In § 173.372, paragraph (a)(2) is revised to read as follows:

§ 173.372 **Mercury Bichloride (mercuric chloride).**

(a) * * *

(2) Specification 15A or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes with inside strong paper bags in tightly closed inside wooden boxes.

136. In § 173.375, paragraph (a)(1) is revised to read as follows:

§ 173.375 **Sodium azide.**

(a) * * *

(1) Specification 15A or 19B (§§ 178.168, 178.191 of this subchapter). Wooden boxes with inside paper bags, securely closed and packed within a waterproof duplex bag, Spec. 2J (§ 178.28 of this subchapter). Net weight not to exceed 100 pounds in one outside box.

137. In § 173.377, paragraphs (a)(2) and (b)(2) are revised to read as follows:

§ 173.377 **Hexaethyl tetraphosphate mixtures; methyl parathion mixtures; organic phosphorus compound mixtures; organic phosphate compound mixtures; parathion mixtures; tetraethyl dithiopyrophosphate mixtures; and tetraethyl pyrophosphate mixtures, dry.**

(a) * * *

(2) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal or fiber cans not over 12 pounds capacity each, or paper bags, Spec. 2D (§ 178.23 of this subchapter), not over 20½ pounds capacity each. Inside containers must be capable of withstanding the tests prescribed in paragraphs (c) and (d) of this section.

(b) * * *

(2) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal cans not over 12 pounds capacity each. Inside containers must be capable of withstanding the tests prescribed in paragraph (c) of this section.

138. In § 173.382, paragraph (a)(3) is revised to read as follows:

§ 173.382 **Irritating materials, not specifically provided for.**

(a) * * *

(3) Specification 15A, 15B, or 19B (§§ 178.168, 178.169, 178.191 of this subchapter). Wooden boxes with inside metal containers not over 1-gallon

capacity each. Net weight not over 80 pounds in one outside box.

139. In § 173.384, the introductory text of paragraph (a)(2) is revised to read as follows:

§ 173.384 **Monochloroacetone, stabilized**

(a) * * *

(2) Specification 15A, 15B, 15C, 16A, or 19B (§§ 178.168, 178.169, 178.170, 178.185, 178.191 of this subchapter).

140. In § 173.385, paragraph (a)(1) and Note 1 following paragraph (c) are revised to read as follows:

§ 173.385 **Tear gas grenades, tear gas candles, or similar devices.**

(a) * * *

(1) Specification 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter). Metal-strapped wooden boxes. Functioning elements not assembled in grenades or devices must be in a separate compartment of these boxes, or in inside or separate outside boxes, Spec. 15A, 15B, 15C, or 19B and must be so packed and cushioned that they may not come in contact with each other or with the walls of box during transportation. Not more than 50 grenades and 50 functioning devices shall be packed in one box and the gross weight of the outside box must not exceed 75 pounds.

* * *

Note 1.—Grenades or other similar devices may be shipped completely assembled when offered by or consigned to the U.S. Department of Defense, provided the functioning element is so packed that it cannot accidentally function. The outside containers must be metal-strapped wooden boxes, Spec. 15A, 15B, 15C, or 19B (§§ 178.168, 178.169, 178.170, 178.191 of this subchapter).

141. In § 173.500, the introductory text of paragraph (b)(2) is revised to read as follows:

§ 173.500 **Definitions.**

(b) * * *

(2) An ORM-B material is a material (including a solid when wet with water) capable of causing significant damage to a transport vehicle from leakage during transportation. Materials meeting one or both of the following criteria are ORM-B materials:

142. In § 173.1060, the entire section is deleted and reserved as follows:

§ 173.1060 [Reserved]

143. In § 173.300, paragraph § of Appendix A is revised to read as follows:

§ 173.300 Consumer commodity.

Appendix A—Method of Testing Corrosion to Skin.

(8) Corrosion will be considered to have resulted if the substances in contact with the rabbit skin have caused destruction or irreversible alteration of the tissue on at least two out of each six rabbits tested. Tissue destruction is considered to have occurred if, at any of the readings, there is ulceration or necrosis. Tissue destruction does not include merely sloughing of the epidermis or erythema, edema, or fissuring.

PART 175—CARRIAGE BY AIRCRAFT

144. In § 175.10, the introductory text of paragraph (5)(32) is revised to read as follows:

§ 175.10 Exceptions.

(3) Hazardous materials which are loaded and carried on or in cargo aircraft only and which are to be dispersed or expended during flight for weather control, forest preservation and protection, flood control, or avalanche control purposes when the following requirements are met:

PART 178—SHIPPING CONTAINER SPECIFICATIONS

145. In § 178.245-6, the last sentence in paragraph (a) is revised to read as follows:

§ 178.245-6 Same plate.

(a) * * * Upon such plate shall be plainly marked by stamping, embossing, or other means of forming letters into or onto the metal plate itself the following information in characters at least 1/8-inch high:

146. In § 178.251-7, the second sentence in paragraph (a) is revised to read as follows:

§ 178.251-7 Identification and marking.

(a) * * * The plate must be marked in letters and numerals at least 1/8-inch high by stamping, embossing, or other means of forming letters into or onto the metal plate itself.

147. In § 178.255-14, the introductory text of paragraph (a) is revised to read as follows:

§ 178.255-14 Marking.

(a) In addition to marking required by the American Society of Mechanical Engineers Code, every tank shall bear permanent marks at least 1/8-inch high stamped into the metal near the center of one of the tank heads or stamped into a plate permanently attached to the tank by means of brazing or welding or other suitable means as follows:

PART 179—SPECIFICATIONS FOR TANK CARS

148. In § 179.102-1, paragraph (a)(1) is revised; paragraph (a)(6) is added to read as follows:

§ 179.102-1 Liquefied carbon dioxide.

(a) * * *
(3) All plates for tank, manway nozzle, and anchorage of tanks must be made of carbon steel complying with ASTM Specification A516-79b, Grades 55, 60, 65, or 70, or AAR Specification TC128-79, Grade B. The ASTM A516 plate must also meet the Charpy V-Notch test requirements of ASTM A20-79b (See Table 15) in the longitudinal direction of rolling. The TC128 plate must also meet the Charpy V-Notch energy absorption requirements of 15 ft-lb minimum average for 3 specimens and 10 ft-lb minimum for one specimen at minus 50° F in the longitudinal direction of rolling in accord with ASTM Specification A20-77. Production-welded test plates prepared as required by W4.00 of AAR Specifications for Tank Cars, Appendix W, must include impact test specimens of weld metal and heat-affected zone. As an alternate, anchor legs may be fabricated of stainless steel, ASTM Specification A240-79 Types 304, 304L, 316 or 316L for which impact tests are not required.

(6) Tank anchor to tank shell fillet welds must be examined by radiography or other non-destructive testing technique to determine that such welds do not have internal voids or discontinuities.

149. In § 179.102-4, paragraph (a)(4) is added to read as follows:

§ 179.102-4 Vinyl fluoride, inhibited.

(a) * * *
(4) Tank anchor to tank shell fillet welds must be examined by radiography or other non-destructive testing technique to determine that such welds do not have internal voids or discontinuities.

§ 179.200-7 [Amended]

150. In § 179.200-7, paragraph (d) is amended by deleting the bottom line of

the table which reads "ASTM A 240-70, Type 430A..... 65,000 22" and by deleting the last line of the footnote which reads "Practice C..... Type 430A..... 0000."

151. In § 179.200-14, paragraph (c) is revised to read as follows:

§ 179.200-14 Expansion capacity.

(c) The opening in the tank shell within the dome shall be at least 29 inches in diameter. When the opening in the tank shell exceeds 20 inches in diameter, the opening shall be reinforced in an approved manner. This additional reinforcement may be accomplished by the use of a dome opening of the fixed type as shown in Appendix E, Figure E-1, or by the use of reinforcing as required by Appendix E, E3.03 and E3.04, E3.06 and E3.07. When the opening in the tank shell is less than the inside diameter of the dome, and the dome cannot be kept closed off in an approved manner, nozzle pocket drain holes shall be provided in the tank shell with nipples projecting inside the tank at least 1-inch.

§ 179.220-7 [Amended]

152. In § 179.220-7, paragraph (d) is amended by deleting the bottom line of the table which reads "ASTM A 240-70, Type 430A..... 65,000 22."

153. In § 179.220-15, paragraph (b) is amended by adding the following sentence at the end to read as follows:

§ 179.220-15 Support system for inner container.

(b) * * * The inner container and outer shell must be permanently bonded to each other electrically either by the support system used, alone or by a separate electrical connection of approved design.

(49 U.S.C. 1803, 1804, 1805, CFR 183, App. A to Part 1).

Note.—The Materials Transportation Bureau has determined that this document will not result in a "major rule" under the terms Executive Order 12291 or is a significant regulation under DOT's regulatory policy and procedures (49 FR 11004), nor require an environmental impact statement under the National Environmental Policy Act (49 U.S.C. 4321 et seq.) A regulatory evaluation and an environmental assessment are available for review in the docket.

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28, 1981.

L. D. Santman,

Director, Materials Transportation Bureau.

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